FIG. 1

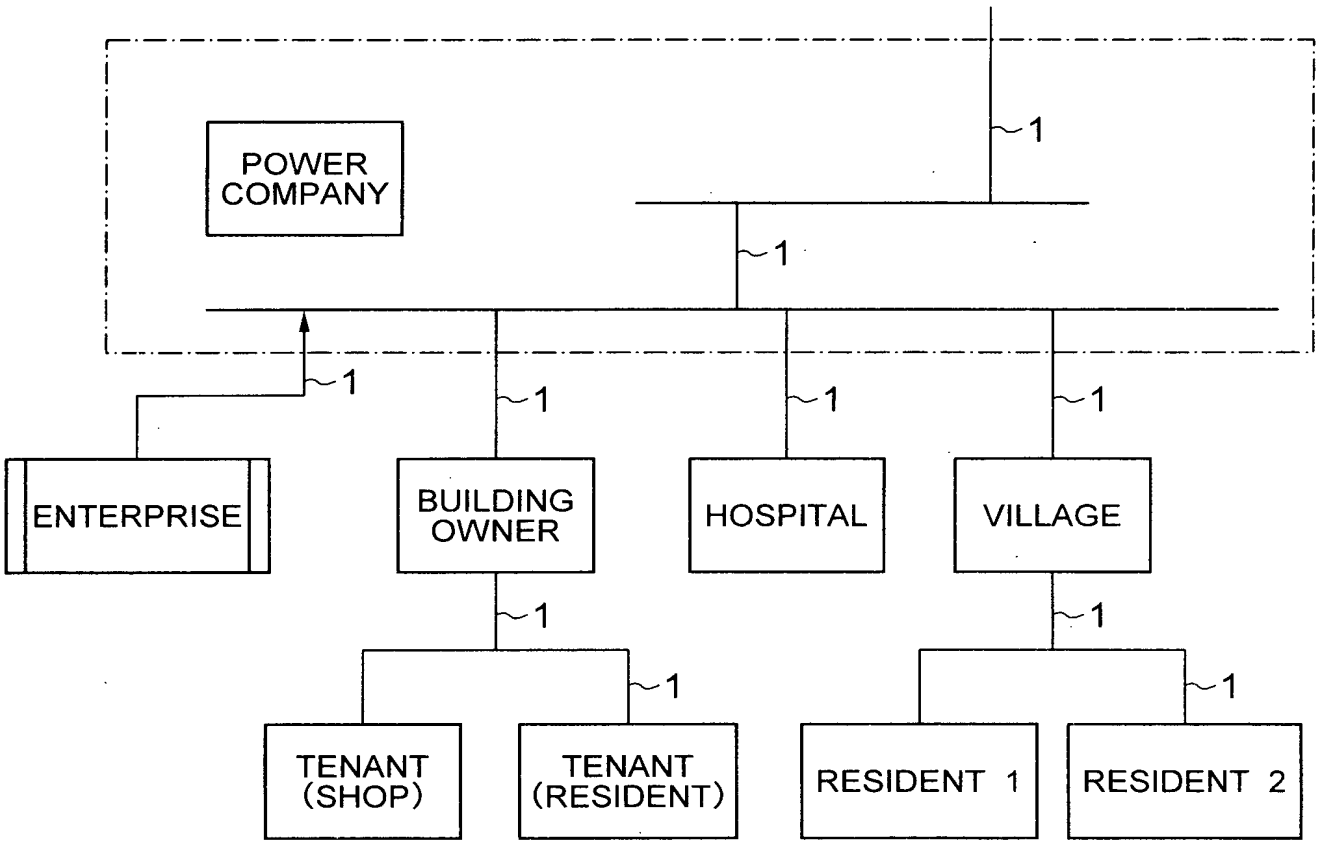
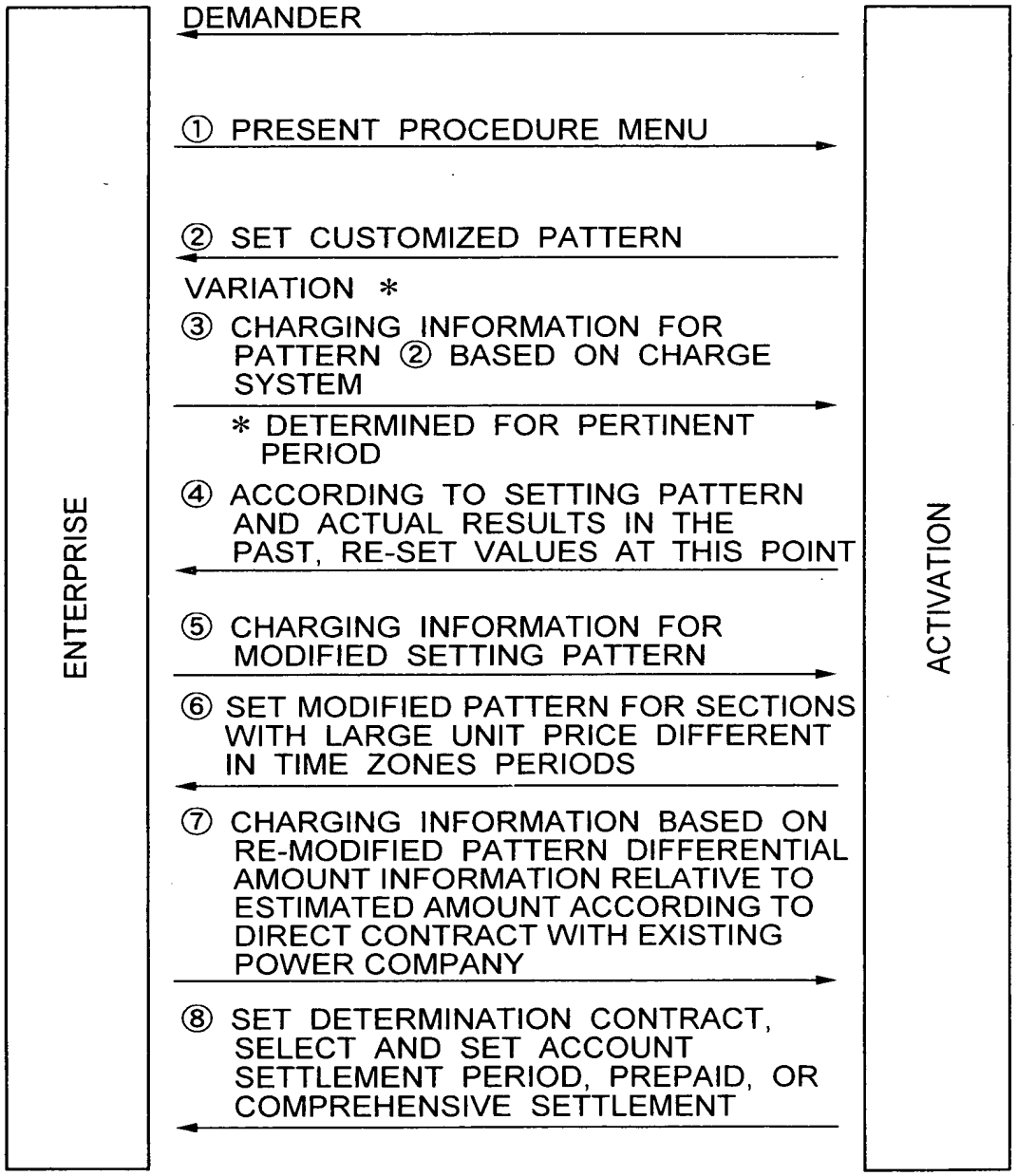
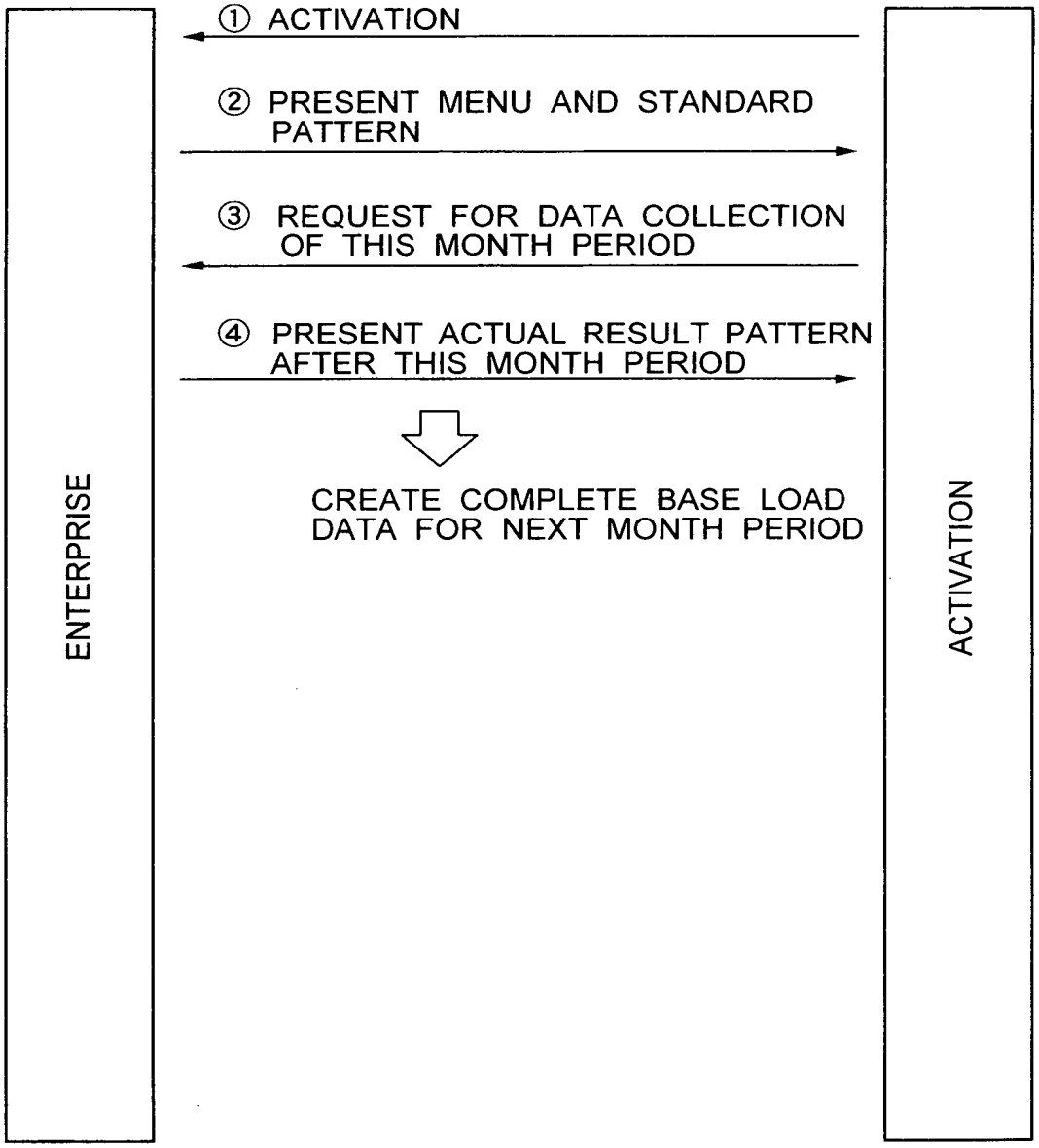

POWER COMPANY
1
1
1
1
1
1
ENTERPRISE
BUILDING OWNER
HOSPITAL
VILLAGE
1
1
1
1
TENANT (SHOP)
TENANT (RESIDENT)
RESIDENT 1
RESIDENT 2

FIG. 2



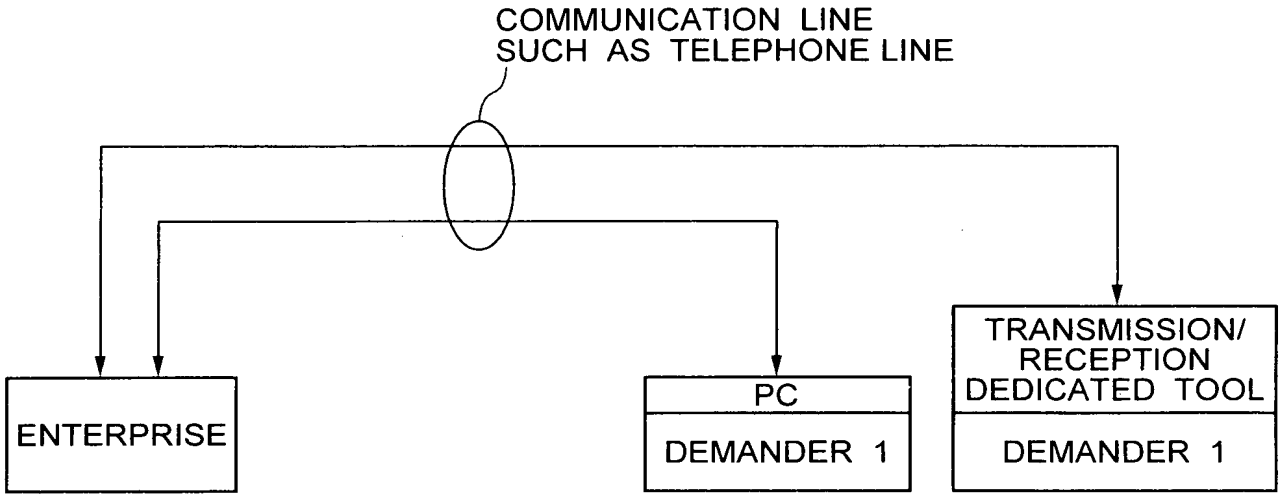
POWER USAGE PLAN CONTRACT FLOW

FIG. 3



DATA SETTING AND CREATION OF REFERENCE ACTUAL RESULT VALUES AT SYSTEM INSTALLATION

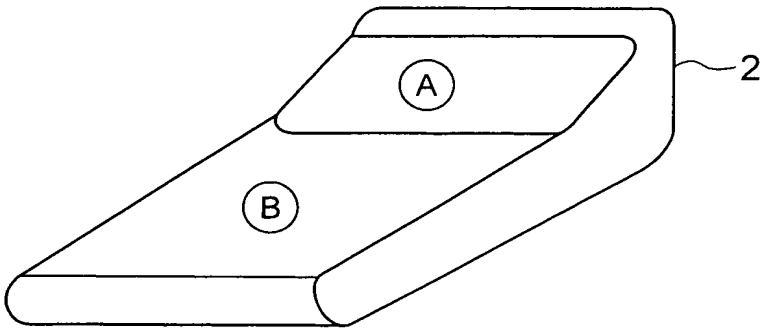
FIG. 4



PC : USE INTERNET HOME PAGES AS BIDIRECTIONAL INFORMATION TRANSMITTING FUNCTION BETWEEN ENTERPRISE AND DEMANDER BY PERSONAL COMPUTER PC OR THE LIKE

TRANSMISSION/RECEPTION DEDICATED TOOL TO SET POWER LOAD - CHARGE PATTERN : POSSESSED BY POWER LOAD DEMANDER NOT POSSESSING PC OR IN ENVIRONMENT IN WHICH PC CANNOT BE USED

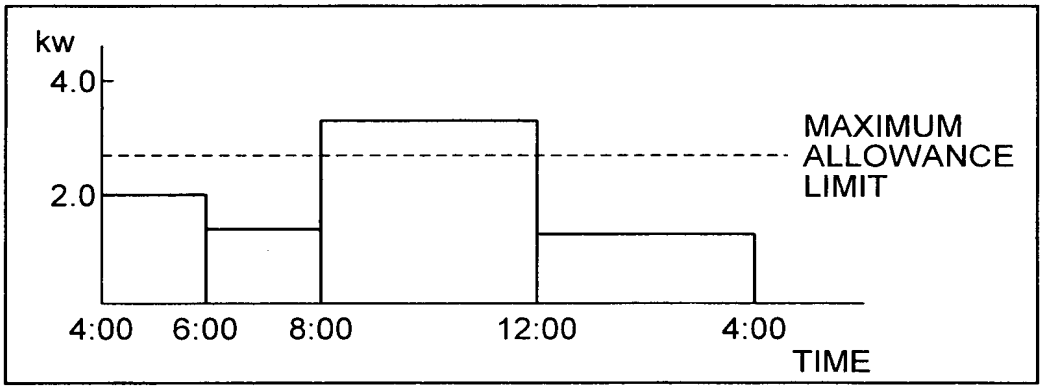
FIG. 5A



Ⓐ : DISPLAY

Ⓑ : SETTING SECTION

EXAMPLE Ⓐ



EXAMPLE Ⓑ

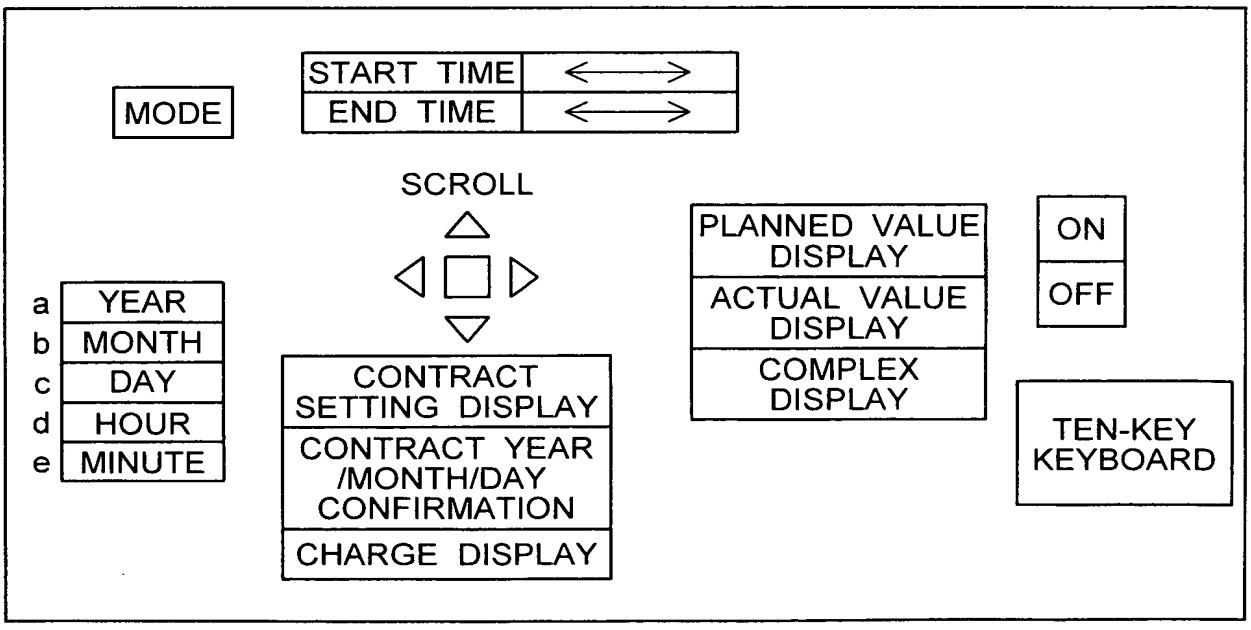


FIG. 5B

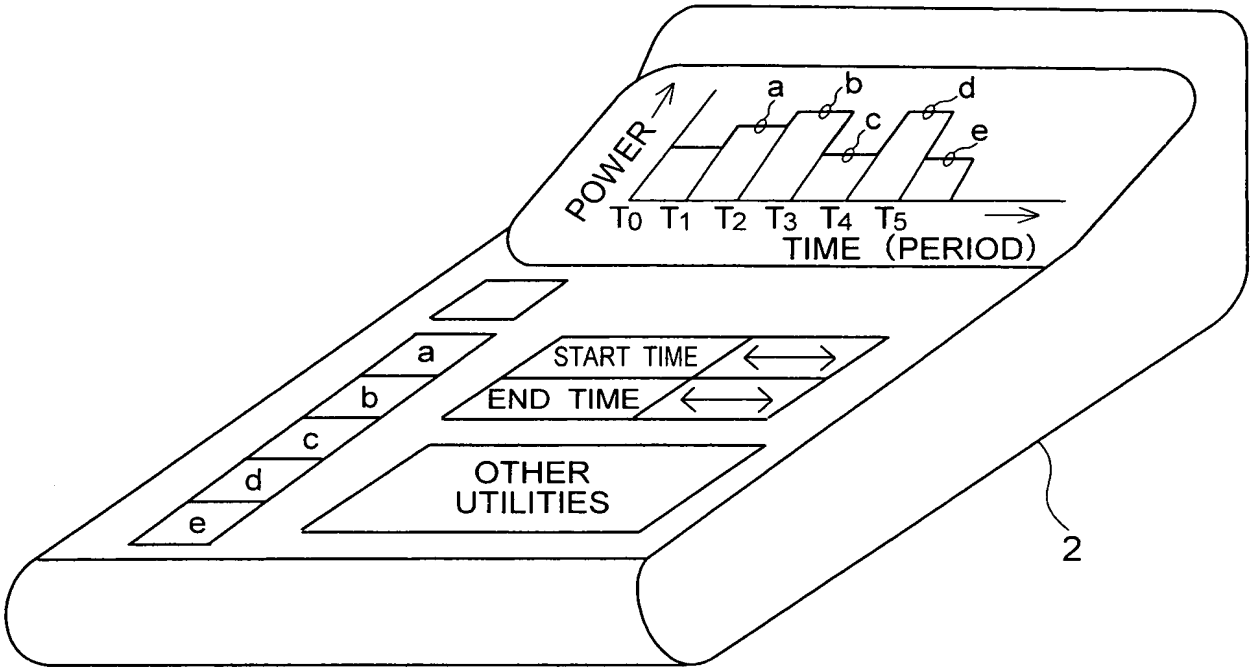
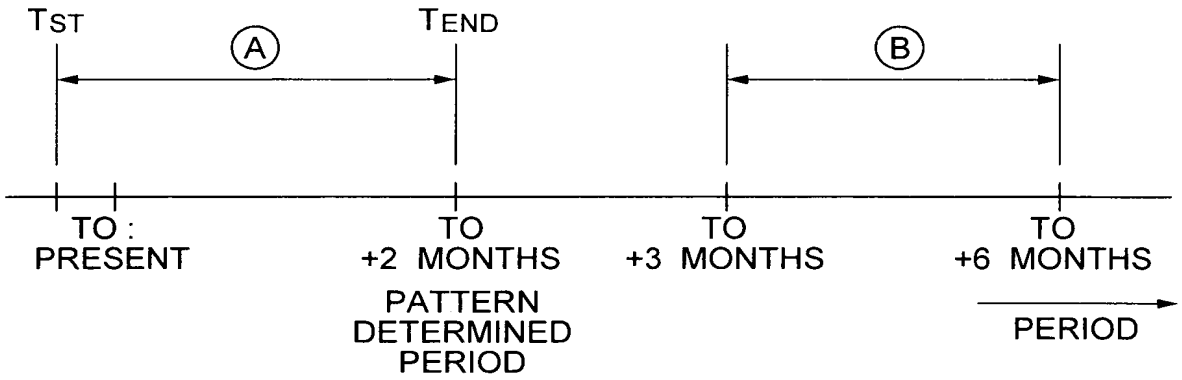

POWER
a
b
c
d
e
T0 T1 T2 T3 T4 T5
TIME (PERIOD)
a
b
c
d
e
START TIME
END TIME
OTHER
UTILITIES
2

FIG. 6

[DETERMINED FIXED LOAD PATTERN]

PERIOD A : SET IN THIS PERIOD TST TO TEND, DEMAND CONSUMPTION LOAD PATTERN IN FUTURE

PERIOD B : TARGET PERIOD TO SET POWER CONSUMPTION LOAD PATTERN



AFTER TEND, SETTING IS POSSIBLE TO LATEST LIMIT GRANTED BY SUPPLIER ENTERPRISE ; EXTRA CHARGE MAY BE USED ; SETTING OF FREE ELONGATION OF PERIOD IS POSSIBLE

FIG. 7

[LOAD PATTERN EXAMPLE FOR SPOT SUPPLY]

FOR FIXED PERIOD OF TIME IN FUTURE E.G., WHEN DEMAND OF DEMANDER SELECTED FIXED PATTERN #1 CANNOT BE EXPECTED IN WHICH THE SUPPLY CAPACITY OF POWER GENERATING FACILITIES MANAGED OR POSSESSED BY ENTERPRISE HAS MARGINAL CAPACITY INCLUDING THE SELLING OF POWER SUPPLIED FROM ANOTHER ENTERPRISE, SETTING PERIOD TIME AND UNIT PRICE ARE IMPARTIALLY PRESENTED TO DEMANDERS TO MAKES IT POSSIBLE TO SIGN SPOT CONTRACT

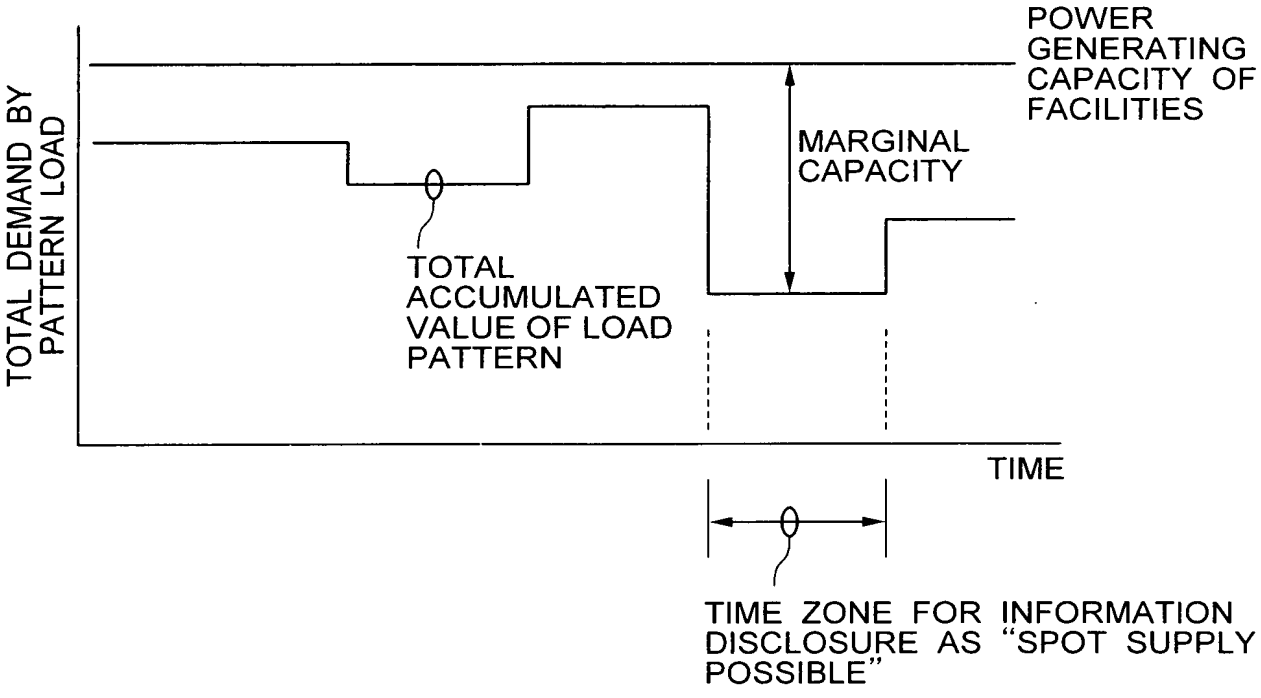


FIG. 8

[(DETERMINED + SPOT) COMBINATION PATTERN]

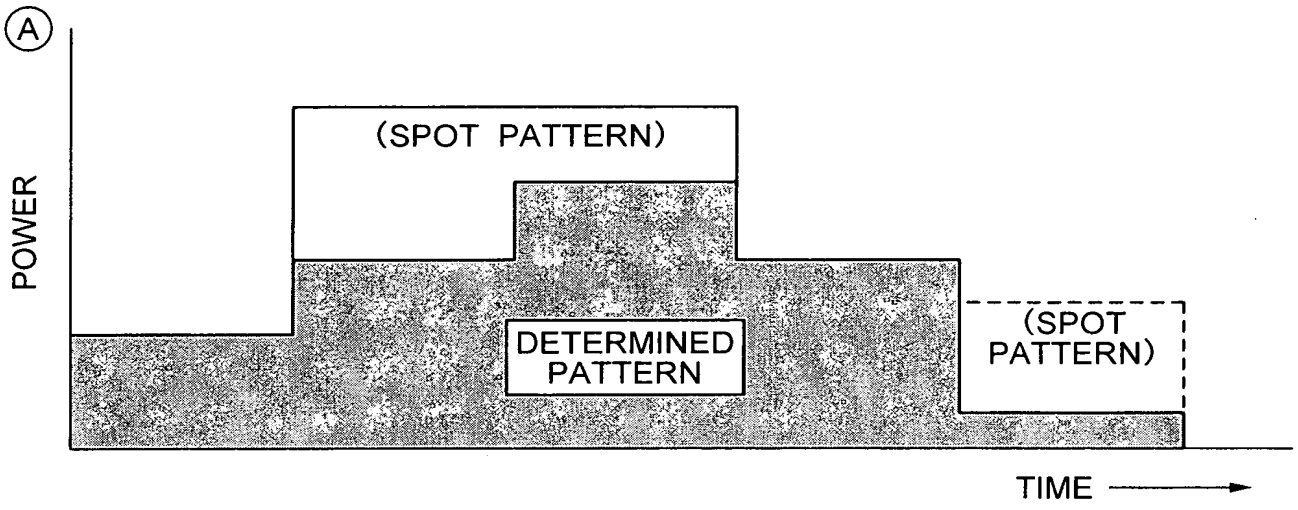


FIG. 9

[INDIVIDUAL CONTRACT UNNECESSARY PATTERN]

CONTRACT FORM FOR DEMANDER WHO DOES CONDUCT LOAD PATTERN CONTRACT IN ADVANCE, COVERING CASE IN WHICH DEMANDER CANNOT CONDUCT PATTERN SETTING BECAUSE DEMANDER IS BUSY OR IS ABSENT FROM THE PERTINENT LOCATION ALTHOUGH DEMANDER IS WILLING TO SIGN THE CONTRACT

IN THIS CASE, THE UPPER LIMIT CORRESPONDING TO RELATIONSHIP BETWEEN EXISTING POWER COMPANY AND EACH DEMANDER OF THE CAPACITY OF POWER DISTRIBUTION FACILITIES OF DEMANDER IS AUTOMATICALLY SELECTED ; OR, BY USING, AS ASSUMPTION, ACTUAL LOAD PATTERN OF ASSOCIATED PERIOD OF LAST YEAR, MOST ECONOMIC CHARGE IS SET, AND DEMANDER AUTHENTICATING ACTION IS REQUIRED IN THIS CASE.

FIG. 10

[CONTRACT RESPONSE FROM USER DEMANDER TO ENTERPRISE]

DEMANDER SETS OWN DEMAND PATTERN. DEMANDER RECOGNIZES CHARGING VALUE CALCULATED ASSUMING ACTUAL CONSUMPTION ACCORDING TO PATTERN AND SEND SETTING PATTERN CONTENTS TO ENTERPRISE

[TOTALING REPLY INFORMATION FROM DEMANDER]

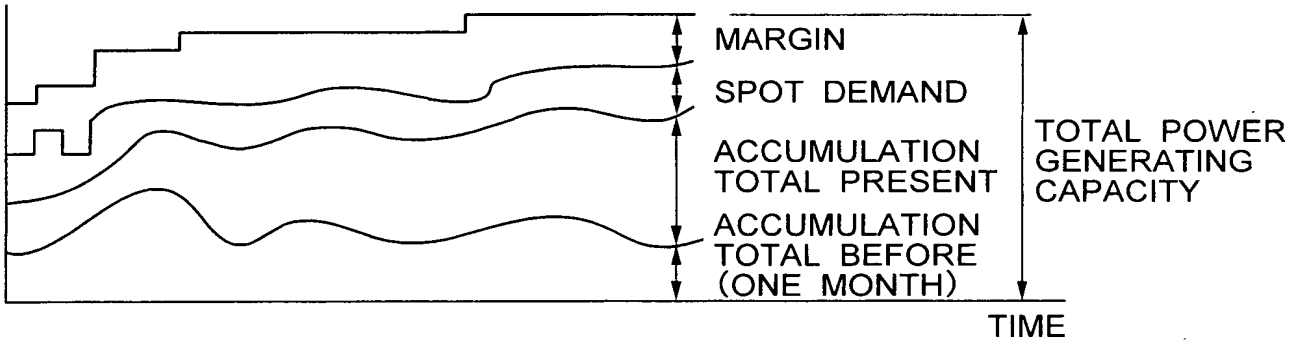


FIG. 11

[CHARGE SETTLEMENT METHOD]

1.	PREPAID
	USE OF POWER LOAD ACCORDING TO LOAD PATTERN IS EXPECTED AND HENCE ESTIMATED CHARGE VALUE FOR PREDETERMINED PERIOD E.G., ONE YEAR FROM THIS POINT CAN BE CALCULATED THEREFORE, ENTERPRISE BEFOREHAND RECEIVES AMOUNT AND SETTLES AFTER POWER CONSUMPTION RESULTS ARE OBTAINED (REDUCTION FOR INTEREST OF PREPAID AMOUNT IS POSSIBLE)

2.	PIECEWORK (SYSTEM AMOUNT IS PAID AT PREDETERMINED TIME ACCORDING TO POWER CONSUMPTION RESULTS)
	ACCORDING TO CUSTOM

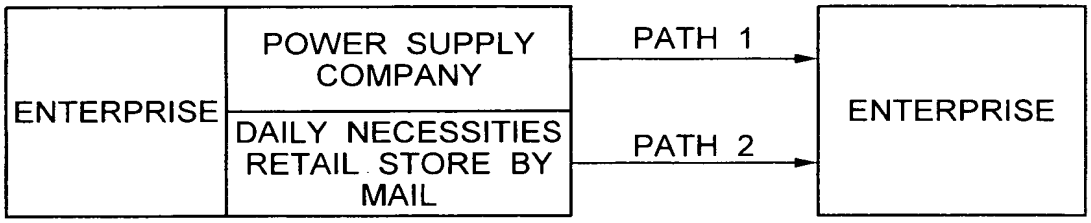
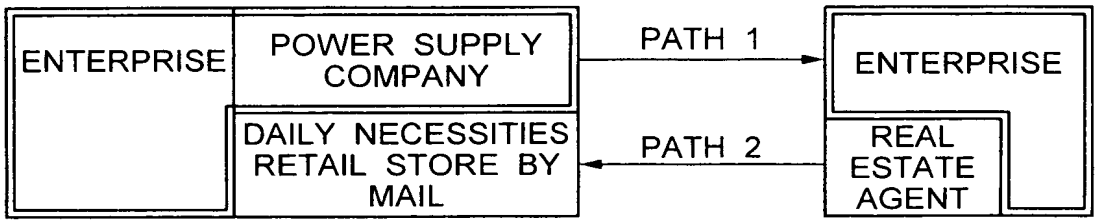
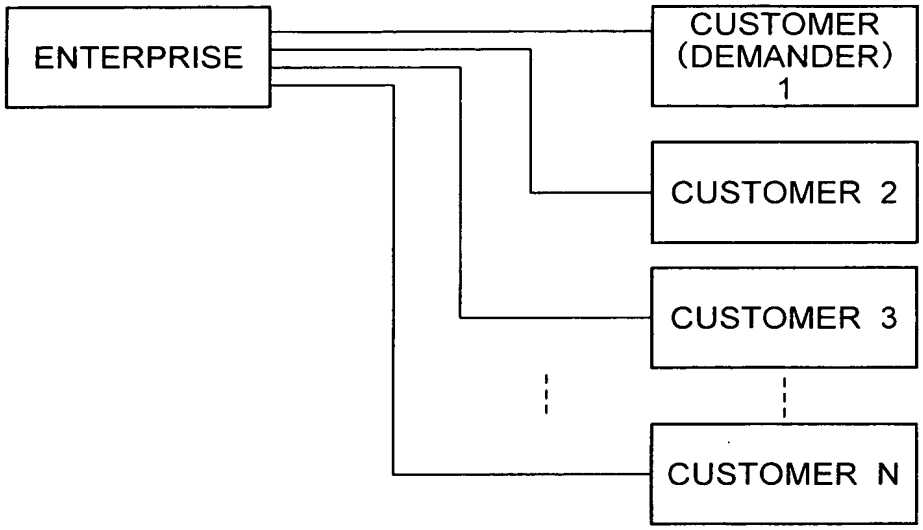
3.	COMPREHENSIVE (COMBINATION) SETTLEMENT
	THERE CAN BE ASSUMED A CASE IN WHICH POWER ENTERPRISE OF DISPERSED POWER SOURCES HAS BUSINESS IN ANOTHER FIELD, NAMELY, A CASE IN WHICH RELATIONSHIP BETWEEN ENTERPRISE AND DEMANDER INCLUDES RELATION OF POWER SUPPLY AND POWER DEMAND AND RELATION THEREBETWEEN IN ANOTHER BUSINESS MODE (ex. 1)  (ex. 2) 

FIG. 12

[TOTAL LOAD PATTERN ON ENTERPRISE SIDE]



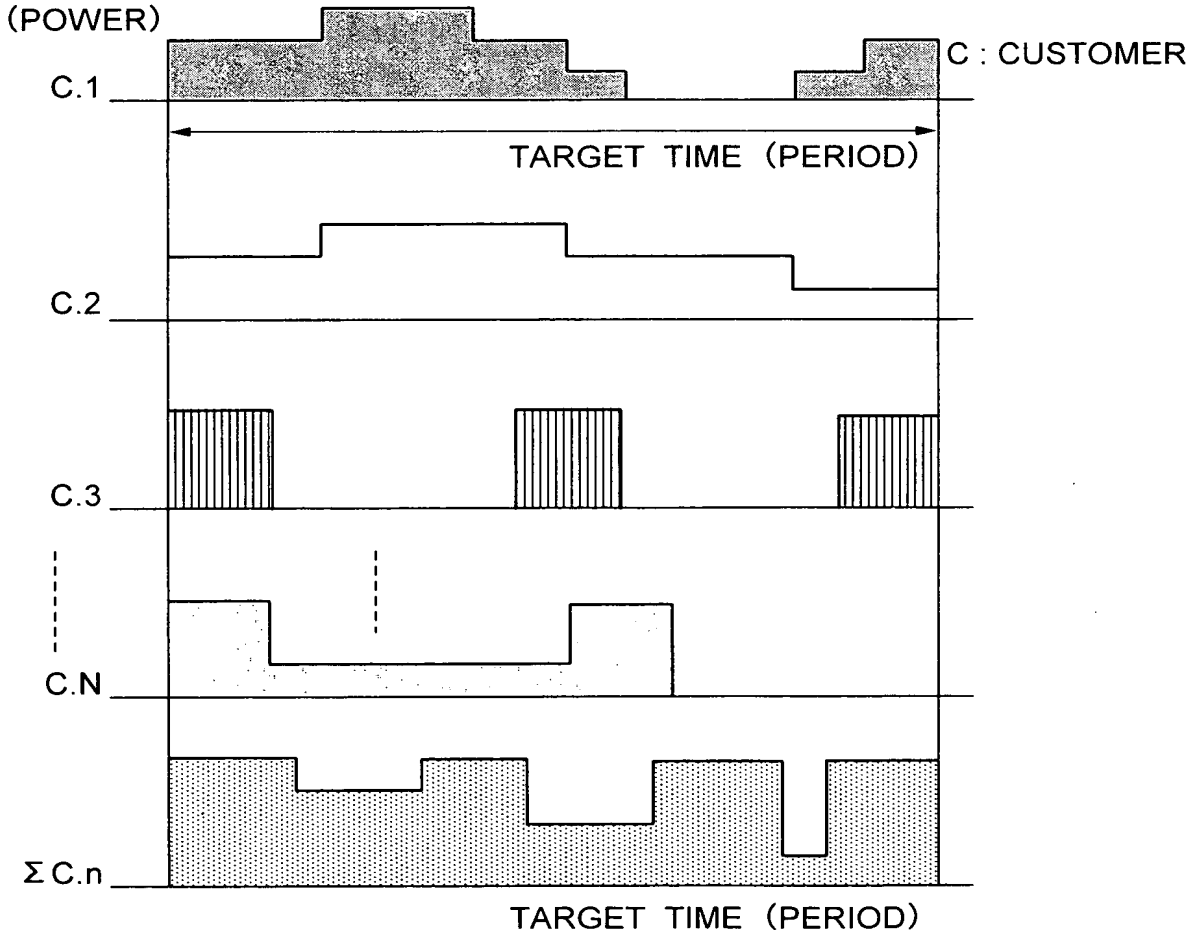
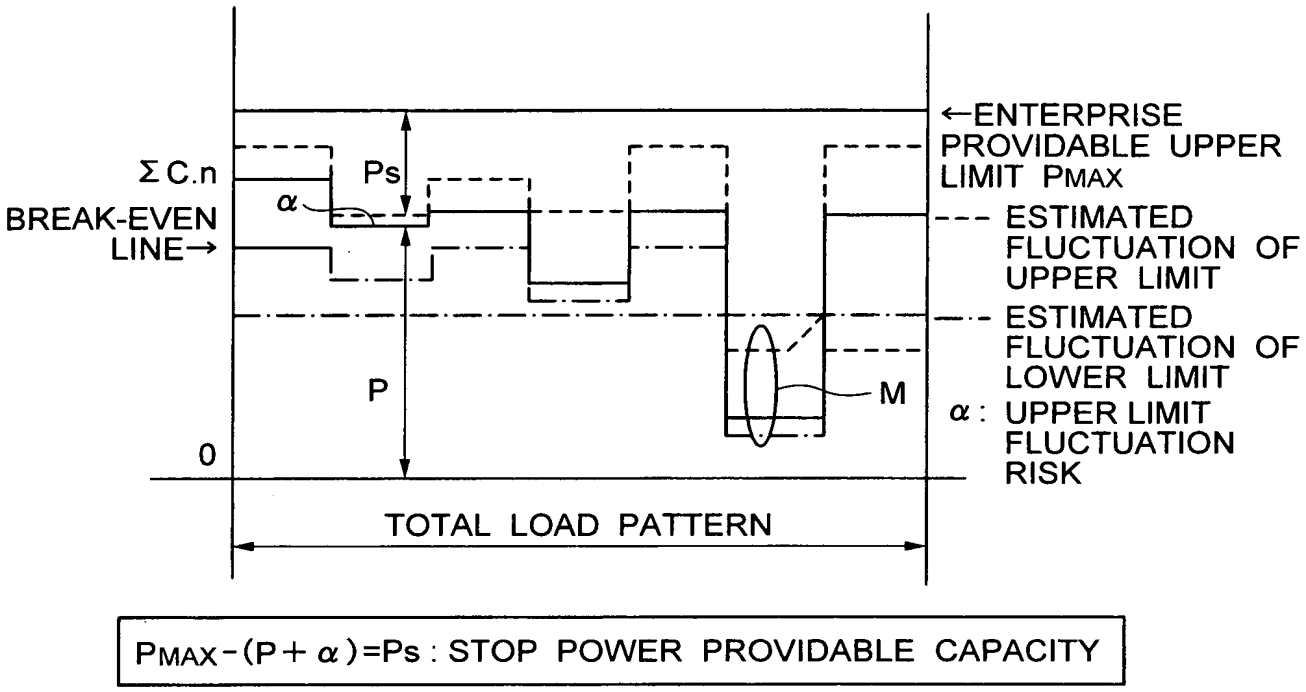


FIG. 13



$P_{MAX}-(P+\alpha)=Ps$: STOP POWER PROVIDABLE CAPACITY

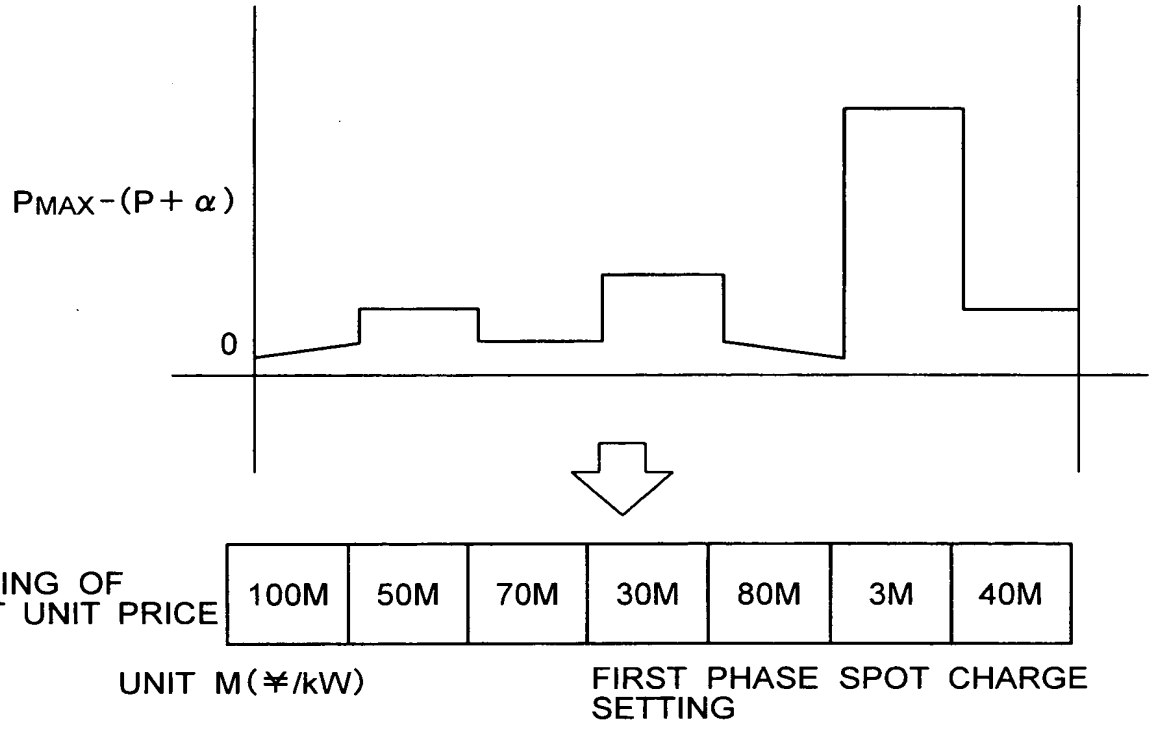
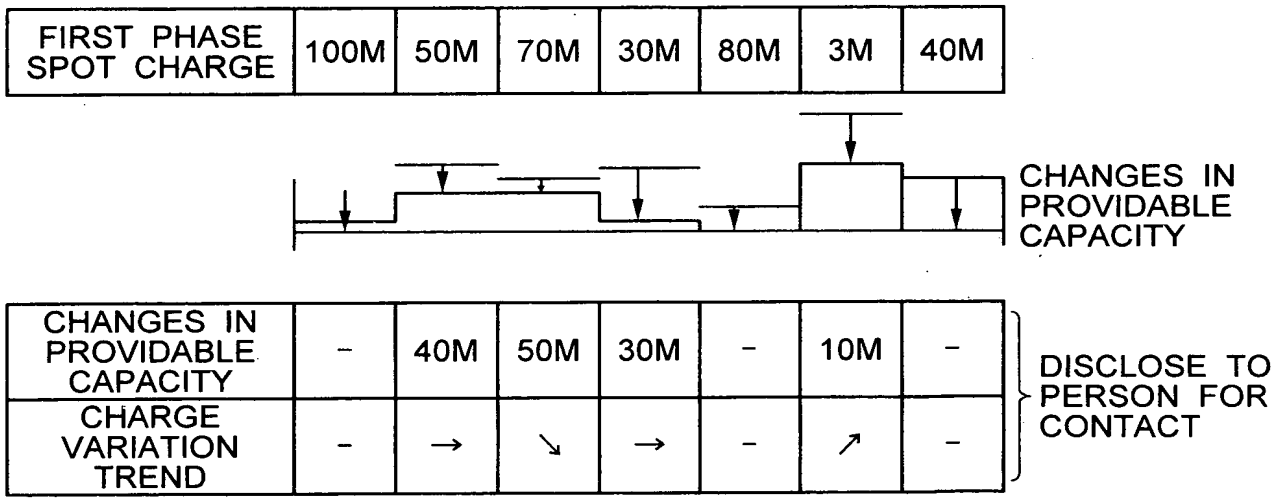


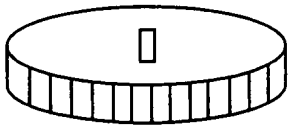
FIG. 14



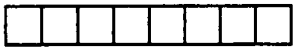
SPOT CHARGE UPDATE

FIG. 15

WATTHOURMETER INSTALLED FOR EACH DEMANDER IN PRIOR ART



① MEASUREMENT BY ROTARY DISK

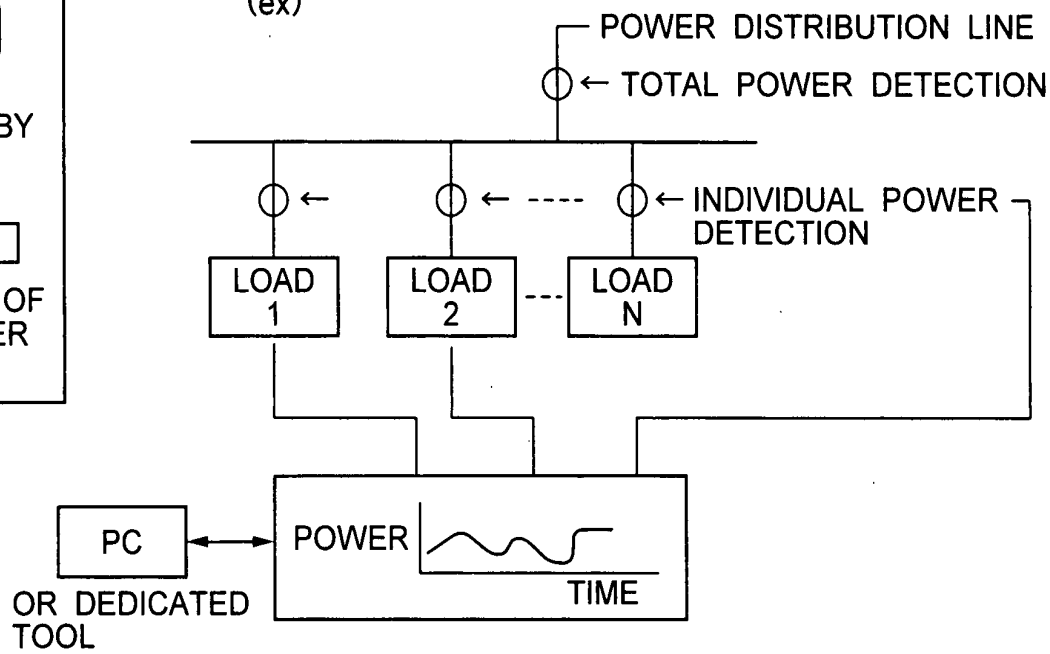


② DISPLAY VALUE OF WATTHOURMETER

[ACQUISITION OF TIME-SERIES DATA]

NEW APPARATUS WITH FUNCTIONS TO MEASURE, TO ACCUMULATE, AND TO SEND POWER CONSUMPTION PATTERN DATA
[ADDITION OF SET OF HARDWARE]

(ex)



2. BY ADDING PART OF HARDWARE TO EXISTING APPARATUS, POWER DATA IS INDIRECTLY ACQUIRED
[ADDITION OF PART OF HARDWARE]

(ex) ANGULAR VELOCITY OF ROTATING DISK IN UPPER-LEFT CORNER IS OPTICALLY DETECTED OR DISPLAYED VALUE IS DETECTED
MIRROR + CAMERA + DATA CONVERSION, ACCUMULATION, AND TRANSMISSION APPARATUS